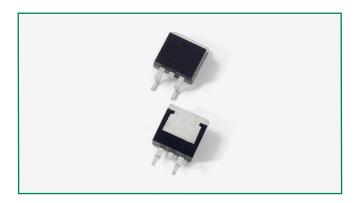
Schottky Barrier Rectifier MBRB2060CT 2x 10A, 60V, TO-263 Common Cathode

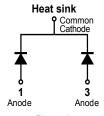
MBRB2060CT







Pin out



Description

Littelfuse MBR series Schottky Barrier Rectifier is designed to meet the general requirements of commercial applications by providing high temperature, low leakage and low V_F products.

It is suitable for high frequency switching mode power supply, free-wheeling diodes and polarity protection diodes.

Features

- High junction temperature capability
- Guard ring for enhanced ruggedness and long term reliability
- Low forward voltage drop
- High frequency operation
- Common cathode configuration in surface mount TO-263 package

Applications

- Switching mode power supply
- Free-wheeling diodes
- DC/DC converters
- Polarity protection diodes

Maximum Ratings

Parameters	Symbol	Test Conditions	Max	Unit
Peak Inverse Voltage	V _{RWM}	-	60	V
Average Forward Current	1	50% duty cycle @T _c = 105°C, rectangular wave form	10 (per leg)	А
Average Forward Current	F(AV)	rectangular wave form	20 (total device)	
RMS Forward Current	I _{F(RMS)}	-	22.2	А
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	180	А

Electrical Characteristics

Parameters	Symbol	Test Conditions	Max	Unit
Forward Voltage Drop (per leg) *	V _{F1}	@ 10A, Pulse, T _J = 25 °C	0.80	V
Reverse Current (per leg) *	I _{R1}	$@V_R = rated V_R Pulse, T_J = 25 °C$	1.0	mA
Junction Capacitance (per leg)	C_{T}	$@V_R = 4V, T_C = 25 ^{\circ}C f_{SIG} = 1MHz$	400	pF
Voltage Rate of Change	dv/dt		10,000	V/µs

^{*}Pulse Width < 300µs, Duty Cycle <2%

Schottky Barrier Rectifier MBRB2060CT 2x 10A, 60V, TO-263 Common Cathode

Thermal-Mechanical Specifications

Parameters	Symbol	Test Conditions	Max	Unit
Max. Junction Temperature	T _J		-55 to +150	°C
Max. Storage Temperature	T _{stg}		-55 to +150	°C
Maximum Thermal Resistance Junction to Case	R _{thJC}	DC operation	2.3	°C/W
Typical Thermal Resistance	R _{thcs}	Mounting surface, smooth and greased	0.5	°C/W
Approximate Weight	wt		1.85	g
Case Style	D ² PAK (TO-263)			

Figure 1: Typical Forward Characteristics

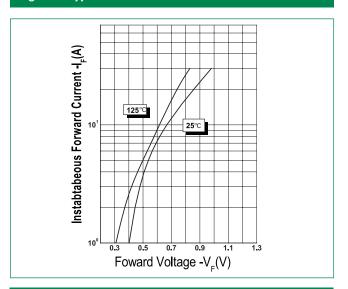


Figure 3: Typical Junction Capacitance

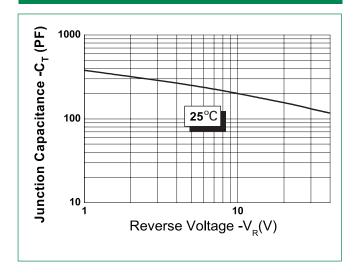
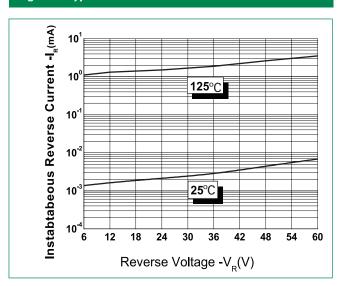
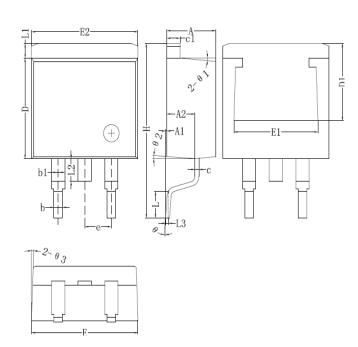


Figure 2: Typical Reverse Characteristics



Schottky Barrier Rectifier MBRB2060CT 2x 10A, 60V, TO-263 Common Cathode

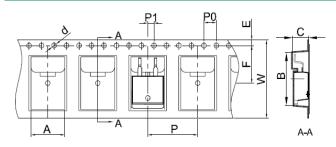
Dimensions-D²PAK(TO-263)



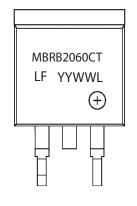
	Millimeters		
	Min	Max	
Α	4.06	4.83	
A1	0.00	0.25	
b	0.51	0.99	
b1	1.14	1.78	
С	0.31*	0.74	
c1	1.14	1.65	
D	8.38	9.65	
D1	6.40*	-	
Е	9.65	10.67	
E1	6.22	-	
E2	9.65	10.67	
е	2.54 BSC		
Н	14.60*	15.88	
L	1.78	2.79	
L1	-	1.68	
L2	-	1.78	
L3	0.254 BSC		

Footnote *: The spec. does not comply with JEDEC spec.

Carrier Tape & Reel Specification



Part Numbering and Marking System



MBR = Device Type B = Package type

20 = Forward Current (20A) 60 = Reverse Voltage (60V)

60 = Reverse Voltage (60V) CT = Configuration

LF = Littelfuse

YY = Year WW = Week

= Lot Number

Symbol	Millimeters		
	Min	Max	
Α	10.70	10.90	
В	16.03	16.23	
С	5.11	5.31	
d	ø1.45	ø1.65	
E	1.65	1.85	
F	11.40	11.60	
P0	3.90	4.10	
Р	15.90	16.10	
P1	1.90	2.10	
W	23.90	24.30	

	Packing Options					
	Part Number	Marking Packing Mode		M.O.Q		
ĺ	MBRB2060CT	MBRB2060CT	800pcs / reel	800		

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Littelfuse manufacturer:

Other Similar products are found below:

MA4E2039 D1FH3-5063 MBR10100CT-BP MBR1545CT MMBD301M3T5G RB160M-50TR RB551V-30 BAS16E6433HTMA1 BAT
54-02LRH E6327 NSR05F40QNXT5G NTE555 JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W SK310-T SK32A-LTP SK34B-TP
SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G SB007-03C-TB-E SK32A-TP SK33B-TP
SK38B-TP NRVBM120LT1G NTE505 NTSB30U100CT-1G SS15E-TP VS-6CWQ10FNHM3 ACDBA1100LR-HF ACDBA1200-HF
ACDBA140-HF ACDBA2100-HF ACDBA3100-HF CDBQC0530L-HF CDBQC0240LR-HF ACDBA260LR-HF ACDBA1100-HF
SK310B-TP MA4E2502L-1246 MA4E2502H-1246 NRVBM120ET1G NSR01L30MXT5G NTE573 NTE6081 SB560 PMAD1108-LF
SD103ATW-TP